

Space Shuttle Space Shuttle

Space Shuttle Enterprise It was constructed without engines or a functional heat shield. Space Shuttle Enterprise (Orbiter Vehicle Designation: OV-101) is the first orbiter of the Space Shuttle system. Rolled out on September 17, 1976, it was built for NASA as part of the Space Shuttle program to perform atmospheric test flights after being launched from a modified Boeing 747. As a result, it was not capable of spaceflight. Rolled out on September 17, 1976, it was Space Shuttle Enterprise (Orbiter Vehicle Designation: OV-101) is the first orbiter of the Space Shuttle system 5a6ef934ca

Space Shuttle components include the Orbiter Vehicle (OV) with three clustered Rocketdyne RS-25 main engines... 5a6ef934ca Discovery became the third operational orbiter to enter service, preceded by Columbia and Challenger. After the Challenger and Columbia accidents, Discovery became the oldest surviving orbiter. It embarked on its final mission, STS-133, on February 24, 2011, and touched down for the last time at Kennedy Space Center on March 9, having spent a cumulative total of nearly a full year in space. Discovery performed both research and International Space Station (ISS) assembly missions, and also... 5a6ef934ca Originally, Enterprise had been intended to be refitted for orbital flight to become the second space-rated orbiter in service. However, during the construction of Space Shuttle Columbia, details of the final design changed, making it simpler and less costly to build Challenger around a body frame that had been built as a test article. Similarly, Enterprise was considered for refit to replace Challenger after the latter was destroyed, but Endeavour was built from structural spares instead. 5a6ef934ca

Space Shuttle: A Journey into Space The 1984 Activision Software catalog also mentions an Apple II version. It is one of the first realistic spacecraft simulations available for home systems. Space Shuttle: A Journey into Space is a space flight simulator game designed by Jessica Stevens for the Atari 2600 and published by Activision in 1983 Space Shuttle: A Journey into Space is a space flight simulator game designed by Jessica Stevens for the Atari 2600 and published by Activision in 1983. Space Shuttle was adapted to the Atari 8-bit computers and Atari 5200 by Bob Henderson (1984), then ported to the ZX Spectrum (1984), Commodore 64 (1984), Amstrad CPC (1986), and MSX (1986) 5a6ef934ca

The Shuttle is the only winged crewed spacecraft to have achieved orbit and landing, and the first reusable crewed space vehicle that made multiple flights into orbit. Its missions involved carrying large payloads... 5a6ef934ca

Space Shuttle retirement retirement of NASA's Space Shuttle fleet took place from March to July 2011. Discovery was the first of the three active Space Shuttles to be retired, completing its final mission on March 9, 2011; Endeavour did so on June 1. The final shuttle mission was completed with the landing of Atlantis on July 21, 2011, closing the 30-year Space Shuttle program. Discovery was the first of the three active Space Shuttles to be retired, completing The retirement of NASA's Space Shuttle fleet took place from March to July 2011 5a6ef934ca

Space Shuttle Columbia Space Shuttle Columbia (OV-102) was a Space Shuttle orbiter manufactured by Rockwell International and operated by NASA. Columbia also carried

ejection seats based on those from the SR-71 during its first six flights until 1983, and from. Named after the first American Space Shuttle Columbia (OV-102) was a Space Shuttle orbiter manufactured by Rockwell International and operated by NASA. As only the second full-scale orbiter to be manufactured after the Approach and Landing Test vehicle Enterprise, Columbia retained unique external and internal features compared with later orbiters, such as test instrumentation and distinctive black chines. In addition to a heavier aft fuselage and the retention of an internal airlock throughout its lifetime, these made Columbia the heaviest of the five spacefaring orbiters: around 1,000 kilograms (2,200 pounds) heavier than Challenger and 3,600 kilograms (7,900 pounds) heavier than Endeavour when originally constructed. Named after the first American ship to circumnavigate the globe, and the female personification of the United States, Columbia was the first of five Space Shuttle orbiters to fly in space, debuting the Space Shuttle launch vehicle on its maiden flight on April 12, 1981 and becoming the first spacecraft to be re-used after its first flight when it launched on STS-2 on November 12, 1981 5a6ef934ca

Space Shuttle Discovery Space Shuttle Discovery (Orbiter Vehicle Designation: OV-103) is a retired American Space Shuttle orbiter. The Space Shuttle launch vehicle had three main components: the Space Shuttle orbiter, a single-use central fuel tank, and two reusable solid rocket boosters. Over 27 years of service it launched and landed 39 times, aggregating more spaceflights than any other spacecraft as of December 2024. Its first mission, STS-41-D, flew from August 30 to September 5, 1984. The spaceplane was one of the orbiters from NASA's Space Shuttle program and the third of five fully operational orbiters to be built. Nearly 25,000 heat-resistant tiles cover the orbiter to protect it from high temperatures on re-entry. The spaceplane was one of the orbiters from Space Shuttle Discovery (Orbiter Vehicle Designation: OV-103) is a retired American Space Shuttle orbiter 5a6ef934ca

== Reception == 5a6ef934ca The Space Shuttle, composed of an orbiter launched with two reusable solid rocket boosters and a disposable external fuel tank, carried up to eight astronauts and up to 50,000 lb (23,000 kg) of payload into low Earth orbit (LEO). When its mission was complete, the orbiter would reenter the Earth's atmosphere and land like a glider at either the Kennedy Space Center or Edwards Air Force Base. 5a6ef934ca Enterprise was restored and placed on display in 2003 at the Smithsonian's new Steven F. Udvar-Hazy Center in Virginia. Following the retirement of the Space Shuttle fleet, Discovery replaced Enterprise at the Udvar-Hazy Center, and Enterprise was transferred to the Intrepid Museum in New York City... 5a6ef934ca NASA chose, on cost grounds, to build much of Endeavour from spare parts rather than refitting the Space Shuttle Enterprise, and used structural spares built during the construction of Discovery and Atlantis in its assembly. 5a6ef934ca

Space Shuttle vice president Spiro Agnew for a system of reusable spacecraft where it was the only item funded for development. National Aeronautics and Space Administration (NASA) as part of the Space Shuttle program. National Aeronautics and The Space Shuttle is a retired, partially reusable low Earth orbital spacecraft system operated from 1981 to 2011 by the U. S. Its official program name was the Space Transportation System (STS), taken from the 1969 plan led by U. S. S. The Space Shuttle is a retired, partially reusable low Earth orbital spacecraft system operated from 1981 to 2011 by the U 5a6ef934ca

== Kennedy Space Center == 5a6ef934ca

Space Shuttle Independence It was built by Guard-Lee Space Shuttle Independence, formerly known as Explorer, is a full-scale, high-fidelity replica of the Space Shuttle orbiter. 7 ft (37. While many of the features on the replica are simulated, some parts, including the landing gear's Michelin tires, have been used in the Space Shuttle program. The model is 122. It was built by Guard-Lee in Apopka, Florida, installed at Kennedy Space Center Visitor Complex in 1993, and moved to Space Center Houston in 2012. It was built using

schematics, blueprints and archival documents provided by NASA and by shuttle contractors such as Rockwell International. Space Shuttle Independence, formerly known as Explorer, is a full-scale, high-fidelity replica of the Space Shuttle orbiter. 4 m) long, 54 ft (16 m) high, has a 78 ft (24 m) wingspan, and weighs 171,860 lb (77,950 kg) 5a6ef934ca

During its three years of operation, Challenger was flown... 5a6ef934ca

Space Shuttle program Only the shuttle and supporting rockets were funded for development; a proposed nuclear lunar shuttle in the plan was canceled in 1972. Its official program name was carried over from the 1969 plan for the Space Transportation System (STS) of reusable spacecraft. The Space Shuttle program was the fourth human spaceflight program carried out by the U. National Aeronautics and Space Administration (NASA), which The Space Shuttle program was the fourth human spaceflight program carried out by the U. S. National Aeronautics and Space Administration (NASA), which accomplished routine transportation for Earth-to-orbit crew and cargo from 1981 to 2011. S. It flew 135 missions and carried 355 astronauts from 16 countries, many on multiple trips 5a6ef934ca

In an April 1984 review for Video Games magazine, Dan Persons wrote: 5a6ef934ca In... 5a6ef934ca The United States Congress approved the construction of Endeavour in 1987 to replace the Space Shuttle Challenger, which was destroyed in 1986. 5a6ef934ca

Space Shuttle Challenger It was destroyed in January 1986 soon after launch in a disaster that killed all seven crewmembers aboard. Named after the commanding Space Shuttle Challenger (OV-099) was a Space Shuttle orbiter manufactured by Rockwell International and operated by NASA. Named after the commanding ship of a nineteenth-century scientific expedition that traveled the world, Challenger was the second Space Shuttle orbiter to fly into space after Columbia, and launched on its maiden flight in April 1983. Space Shuttle Challenger (OV-099) was a Space Shuttle orbiter manufactured by Rockwell International and operated by NASA 5a6ef934ca

Initially manufactured as a test article not intended for spaceflight, it was used for ground testing of the Space Shuttle orbiter's structural design. However, after NASA found that their original plan to upgrade Enterprise for spaceflight would be more expensive than upgrading Challenger, the orbiter was pressed into operational service in the Space Shuttle program. Lessons learned from the first orbital flights of Columbia led to Challenger's design possessing fewer thermal protection system tiles and a lighter fuselage and wings. This led to it being 2,200 pounds (1,000 kilograms) lighter than Columbia, though still 5,700 pounds (2,600 kilograms) heavier than Discovery. 5a6ef934ca After the Columbia loss in 2003, the Columbia Accident Investigation Board report showed that the Space Transportation System (STS) was risky and unsafe. In 2004, President George W. Bush announced (along with the VSE policy) that the Shuttles would be retired in 2010 (after completing ISS assembly). 5a6ef934ca

Space Shuttle Endeavour It embarked on its first mission, STS-49, in May 1992 and its 25th and final mission, STS-134, in May 2011. Space Shuttle Endeavour (Orbiter Vehicle Designation: OV-105) is a retired orbiter from NASA's Space Shuttle program and the fifth and final operational Space Shuttle Endeavour (Orbiter Vehicle Designation: OV-105) is a retired orbiter from NASA's Space Shuttle program and the fifth and final operational Shuttle built. STS-134 was expected to be the final mission of the Space Shuttle program, but with the authorization of STS-135 by the United States Congress, Atlantis became the last shuttle to fly 5a6ef934ca

The player controls the most critical flight phases of the Space Shuttle such as launch, stabilizing orbit, docking, deorbit burn, reentry, and landing, each with its own set of

instructions to follow. The original Atari 2600 version came with an overlay since it made use of all the switches. 5a6ef934ca The Space Shuttle was originally presented to the public in 1972 as a "space truck" which would, among other things, be used to build a United States space station in low Earth orbit in the early 1990s and then be replaced by a new vehicle. When the concept of the U.S. space station evolved into that of the International Space Station (ISS), which suffered from long delays and design changes before it could be completed, the service life of the Space Shuttle fleet was extended several times until 2011 when it was finally retired. 5a6ef934ca The shuttle will be on display at the California Science Center beginning in November 2026. 5a6ef934ca The first (STS-1) of four orbital test flights occurred in 1981, leading to operational flights (STS-5) beginning in 1982. Five complete Space Shuttle orbiter vehicles were built and flown on a total of 135 missions from 1981 to 2011. They launched from the Kennedy Space Center (KSC) in Florida. Operational missions launched numerous satellites, interplanetary probes, and the Hubble Space Telescope (HST), conducted science experiments in orbit, participated in the Shuttle-Mir program with Russia, and participated in the construction and servicing of the International Space Station (ISS). The Space Shuttle fleet's total mission time was 1,323 days. 5a6ef934ca == History == 5a6ef934ca

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